

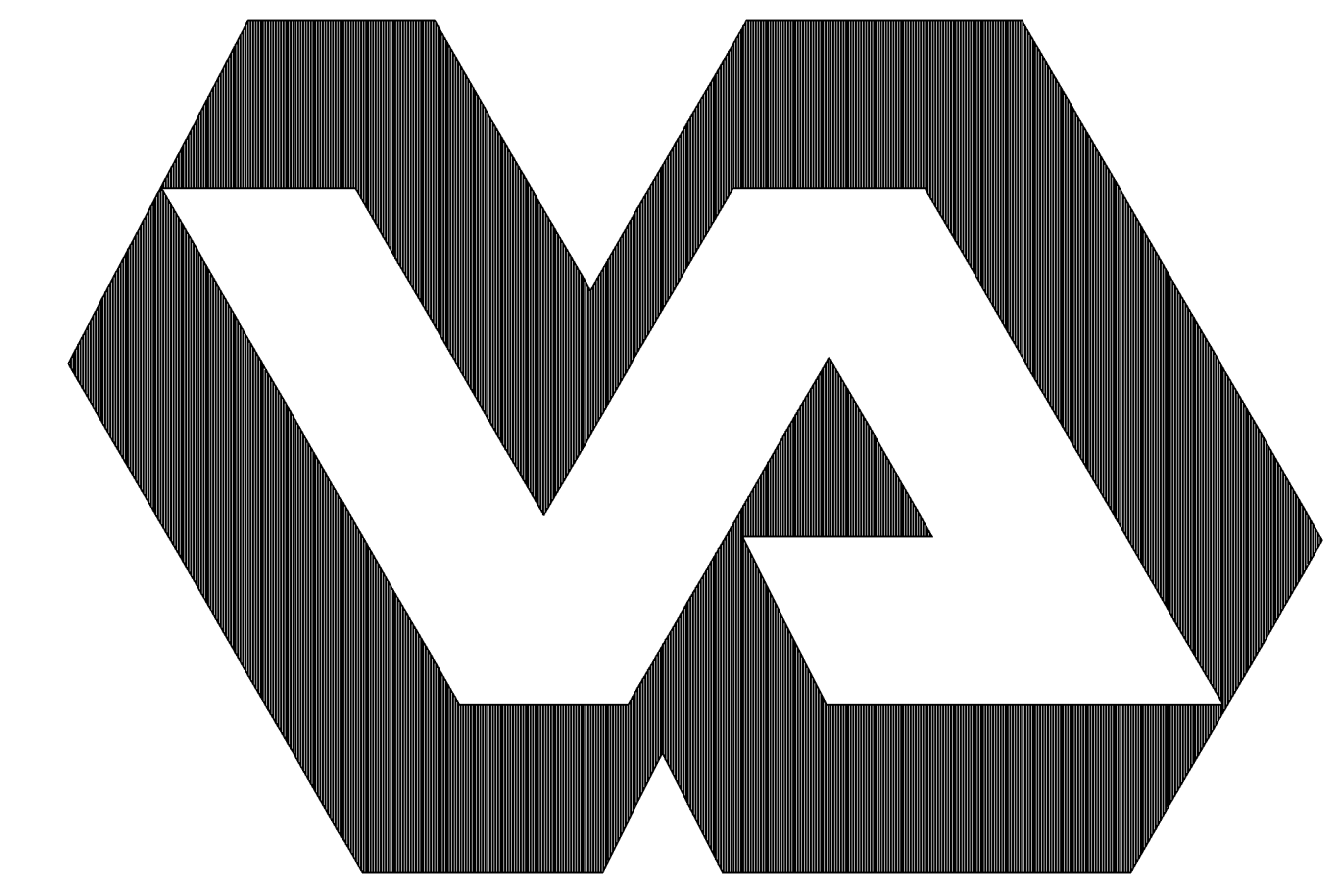
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER - WADE PARK

10701 EAST BLVD. CLEVELAND, OH. 44106

EMERGENCY SEWER REPAIR K-WING

PROJECT NO. 541-16-522

Veterans Administration
Medical Center



DESIGN CODE INFORMATION

VA PLUMBING DESIGN GUIDE 2014
INTERNATIONAL BUILDING CODE 2015
NFPA 99 2015

DRAWING INDEX

GENERAL

1-X0.0 COVER SHEET

ARCHITECTURAL

1-A1.1 PARTIAL BASEMENT EQUIPMENT ACCESS SITE PLAN
1-A1.2 GENERAL PROJECT NOTES AND DETAILS
1-A1.3 PARTIAL BASEMENT FLOOR PLANS

MECHANICAL

1-P0.1 PLUMBING LEGEND, GENERAL NOTES & DETAILS
1-P1.1 PARTIAL BASEMENT PLUMBING PLANS

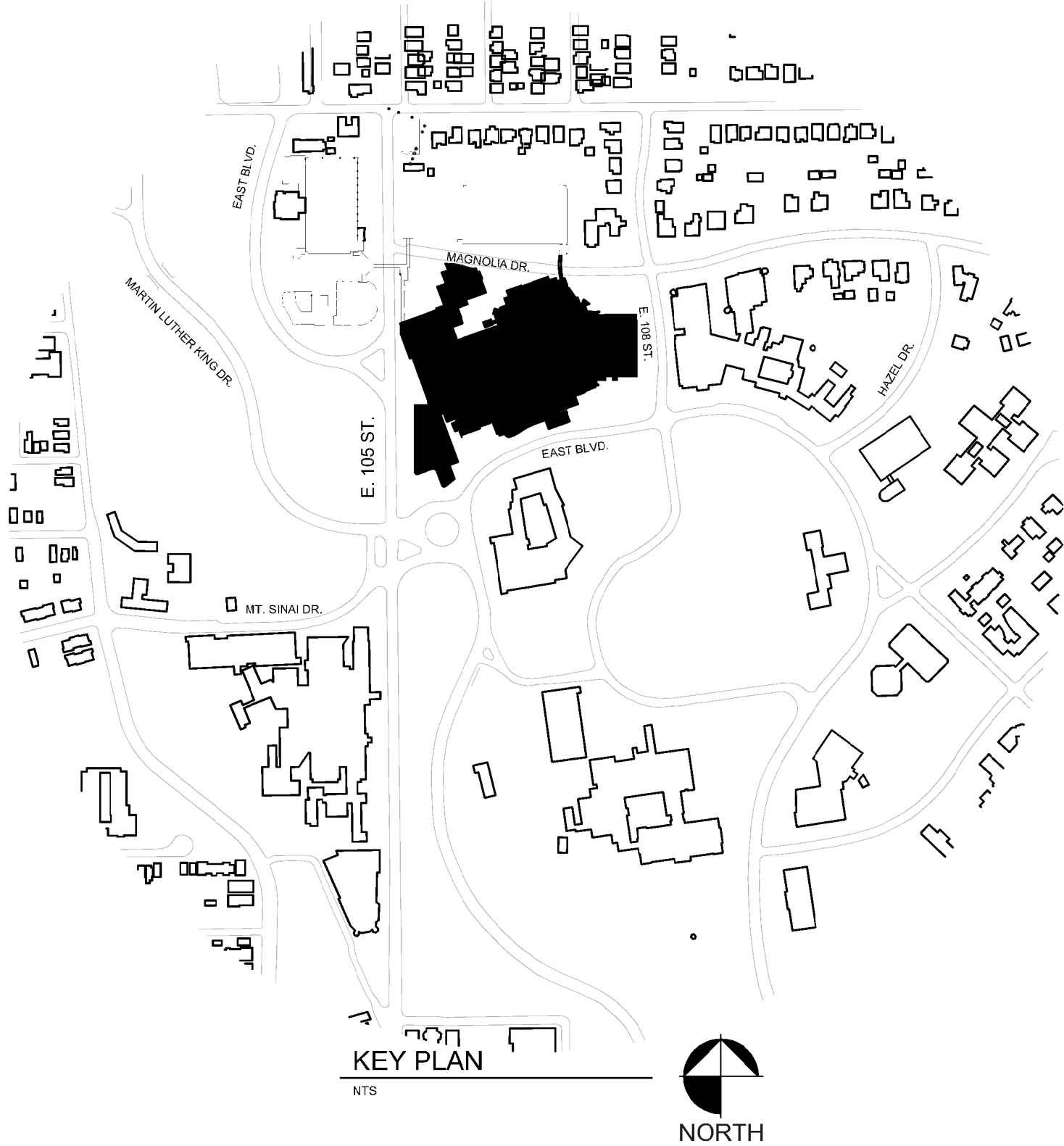
Perspectus Architecture LLC

Architect
13212 Shaker Square, Cleveland, Ohio 44120

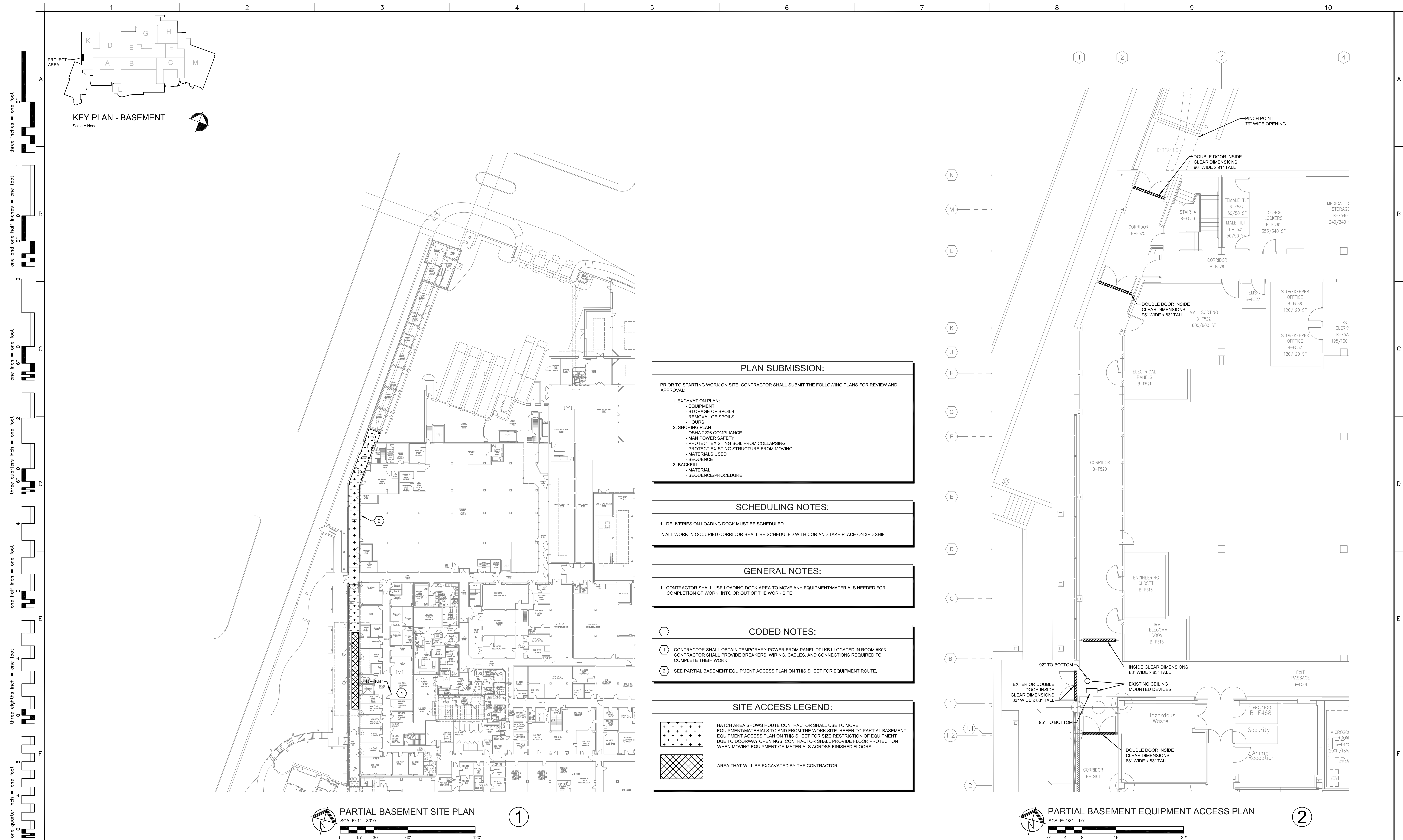
Fredrick, Fredrick &
Heller Engineers, Inc.

Mechanical & Electrical Engineers
672 East Royalton Road, Broadview Heights, Ohio 44147

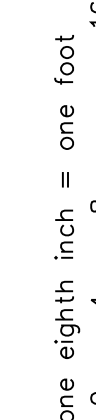
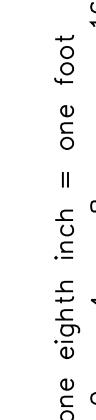
BID ISSUE
JULY 01, 2016



Revisions	APPROVALS		DATE	APPROVALS		DATE	APPROVALS		DATE	Drawing Title		Project Title		Project Number		Office of Facilities Management	
	DIRECTOR 00			CHIEF Planning and Construction			FACILITY MANAGER			COVER SHEET		EMERGENCY SEWER REPAIR K-WING		541-16-522			
	ASSOCIATE DIRECTOR 00A (B)			CHIEF, Occupational Health & Safety			SHOP FOREMAN 138			Approved: Division Chief		Location		Building Number 1			
	CHIEF, ENGINEERING 138			CHIEF, IRM						Approved: Service Director		Date		Checked			
												07-01-2016		DAD		Drawing Number 1-X0.0	
														JXC		Department of Veterans Affairs	

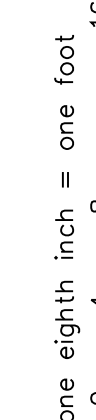


		CONSULTANTS:		ARCHITECT:		PARTIAL BASEMENT EQUIPMENT ACCESS SITE PLAN		EMERGENCY SEWER REPAIR K-WING		FULLY SPRINKLERED	
		FREDRICK, FREDRICK & HELLER ENGINEERS, INC. 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147 TEL. (440) 546-9696 FAX (440) 546-9699		Perspectus architecture 13212 Shaker Square Suite 204 Cleveland, Ohio 44120 P. 216.752.1800 F. 216.752.3833		Approved: Project Director		Location VAMC - WADE PARK		Office of Facilities Management	
Bid Issue Revisions:		07/01/2016 Date		DAVID A. O'DONOGHUE REGISTERED PROFESSIONAL ENGINEER 16038		Project Number 541-16-522		Building Number 1		Drawing Number 1-A1.1	
								Date 07-01-2016		Checked DAD	
								Drawn JXC		Dwg. of	

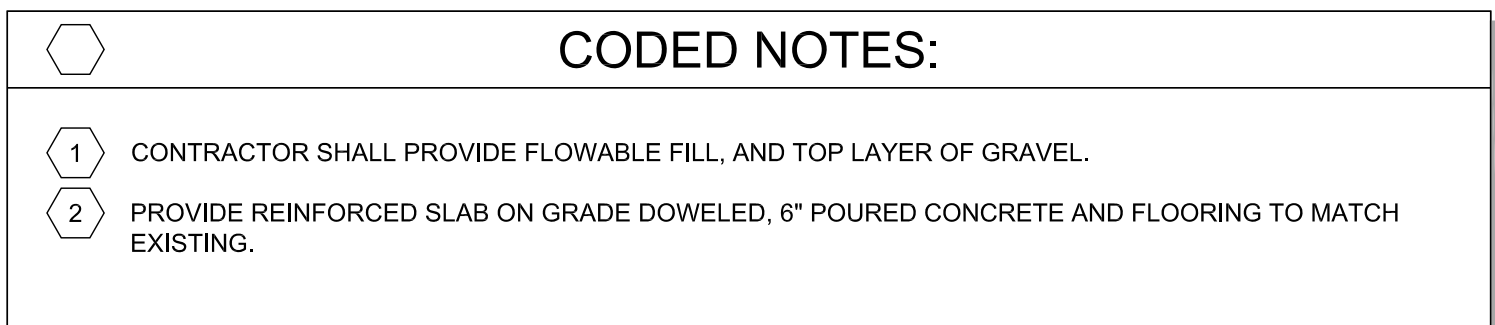


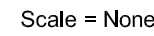
Scale = None

Scale = None



Bar Size	Class A Development Length, l_d					
	fc = 3000 psi		fc = 4000 psi		fc = 5000 psi	
	Top	Other	Top	Other	Top	Other
#3	22"	17"	19"	15"	17"	13"
#4	29"	22"	26"	19"	23"	17"
#6	36"	28"	31"	24"	28"	22"
#8	43"	33"	37"	29"	34"	26"
#7	63"	46"	54"	42"	49"	38"
#9	72"	55"	62"	46"	56"	43"





one eighth inch = one foot

VA FORM 08-6231, OCT 1978

- A. LOCATIONS AND ROUTING OF EXISTING PIPING, DUCTWORK AND EQUIPMENT IS PRESUMED FROM EXISTING DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL PRIOR TO COMMENCEMENT OF WORK. IF ANY DISCREPANCIES OR UNUSUAL CONDITIONS WHICH WILL NOT PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THESE DRAWINGS.
- B. COORDINATE ALL SHUT-DOWNS OF EXISTING MECHANICAL SYSTEMS WITH OWNER A MINIMUM OF SEVEN DAYS IN ADVANCE.
- C. PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW WALL MOUNTED DEVICES WITH OWNER AND ARCHITECT.
- D. PROVIDE ADEQUATE SERVICE CLEARANCE FOR ALL MECHANICAL EQUIPMENT. REFER TO INSTRUCTIONS FROM THE EQUIPMENT MANUFACTURER.
- E. NEW PIPING SHALL NOT BE ROUTED ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF PANELS.
- F. DEMOLITION OF PIPING: INCLUDE REMOVAL AND REPLACEMENT OF CEILINGS AND CUTTING AND PATCHING OF WALLS AND FLOORS. FILL AND PATCH ALL OPENINGS CREATED BY THE REMOVAL OF PIPING TO MATCH SURROUNDING SURFACES.
- G. WHERE WORK IS SHOWN ABOVE EXISTING CEILINGS THE PC SHALL REMOVE AND REPLACE EXISTING CEILINGS AS REQUIRED TO PERFORM ALL WORK DESCRIBED.

NOTE: THIS LEGEND IS INTENDED TO AID IN THE UNDERSTANDING OF SHORTHAND, SYMBOLS AND ABBREVIATIONS SHOWN IN THESE CONSTRUCTION DOCUMENTS. IT IS NOT THE INTENTION TO DESCRIBE THE PROJECT SCOPE OF WORK, FOR DETAILED SCOPE OF WORK PLEASE REFER TO THE SUBSEQUENT DRAWINGS.

Diagram illustrating the coding structure for Equipment Type and Unit Number:

- EQUIPMENT TYPE** points to the **EQ-#** oval.
- The **EQ-#** oval is labeled **EQUIPMENT OR FIXTURE MARK**.
- The **UNIT NUMBER** points to the **#** in the **EQ-#** oval.
- The **#** in the **EQ-#** oval is labeled **REFERENCE TO CODED NOTE**.

RO	ROOF OPENING
CTE	CONNECT TO EXISTING
LOD	LIMIT OF DEMOLITION
PC	PLUMBING CONTRACTOR
FC	FIRE SUPPRESSION CONTRACTOR
HC	HVAC CONTRACTOR
TC	TEMPERATURE CONTROL CONTRACTOR
GC	GENERAL TRADES CONTRACTOR
EC	ELECTRICAL CONTRACTOR
AFB	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
RD	ROOF DRAIN
FD	FLOOR DRAIN
VTR	VENT THROUGH ROOF

X	EXISTING TO REMAIN	_____
XR	EXISTING TO BE REMOVED	-----
XRL	EXISTING TO BE RELOCATED	_____
XNL	EXISTING NEW LOCATION	_____

<u> </u> —SAN— <u> </u>	SANITARY WASTE	
<u> </u> —USAN— <u> </u>	SANITARY WASTE BELOW GRADE	— — — —
<u> </u> —V— <u> </u>	PLUMBING VENT	—————

	BRANCH PIPE CONNECTION
	ISOLATION VALVE
	CHECK VALVE
	UNION
	REDUCER
	TRIPLE DUTY VALVE (SHUTOFF, BALANCE, CHECK)
	STRAINER
	BALANCING VALVE
	TWO POSITION VALVE
	PRESSURE REDUCING VALVE
	FLEXIBLE PIPE CONNECTOR
	THERMOMETER IN PIPE WELL
	PIPE GUIDE
	PIPE EXPANSION ANCHOR
	FLEXIBLE METAL EXPANSION LOOP ASSEMBLY
	GAUGE PORT (PETE'S PLUG)
	DRAIN VALVE WITH HOSE FITTING
	MOTORIZED 3-WAY CONTROL VALVE
	MOTORIZED 2-WAY CONTROL VALVE
	PRESSURE GAUGE
	LOCAL DRAIN, VALVED WITH 3/4\"/>
	MANUAL AIR VENT
	PRESSURE RELIEF VALVE
	PIPE DOWN
	PIPE RISE UP
	PIPE CAP
	FLOOR DRAIN

The diagram illustrates two methods for joining a new 15-inch service weight cast iron hub and spigot to existing 15-inch vitrified clay piping.

Top Method: A horizontal section of existing 15-inch vitrified clay piping is shown on the left. To its right is a new 15-inch service weight cast iron hub and spigot. An elastomeric seal coupling for transition is used to join the two pipes.

Bottom Method: A horizontal section of existing 15-inch vitrified clay piping is shown on the left. To its right is a new 15-inch service weight cast iron hub and spigot. An elastomeric seal coupling for transition is used to join the two pipes.

NOT TO SCALE

NOTE:
NO-HUB INSTALLATION
IS SIMILAR.

Perspectus
architecture

13212 Shaker Square Suite 204 Cleveland, Ohio 44120
P. 216.752.1800 F.216.752.3833

DESIGN AND CONSTRUCTION DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND REMAIN THE PROPERTY OF PERSPECTUS ARCHITECTURE. THE USE OF THIS DESIGN AND THESE CONSTRUCTION DOCUMENTS FOR PURPOSES OTHER THAN THE SPECIFIC PROJECT NAMED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESSED WRITTEN CONSENT OF PERSPECTUS ARCHITECTURE.

PLUMBING LEGEND, GENERAL NOTES & DETAILS

Approved: Project Director

EMERGENCY SEWER REPAIR K-WING

Location

Checked

DAD

Drawn

IXC

Project Number

541-16-522

Building Number
1

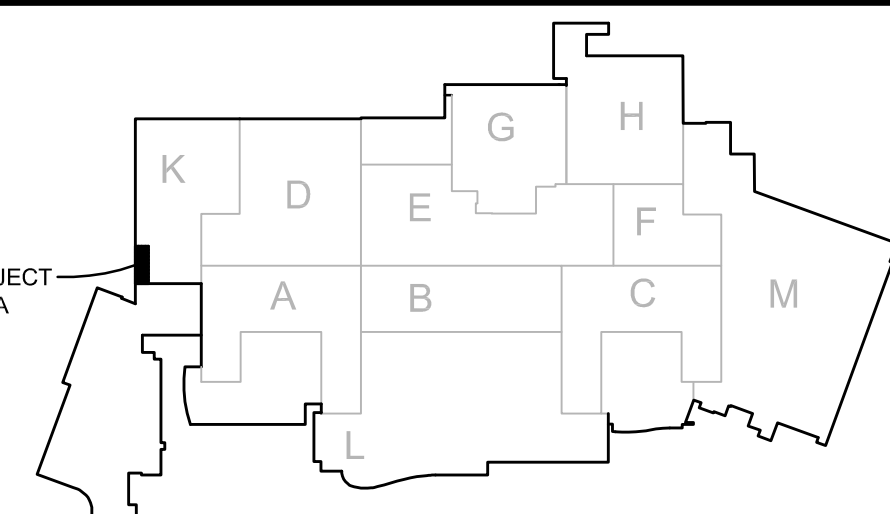
Drawing Number

1-PO.1

**Office of
Facilities
Management**

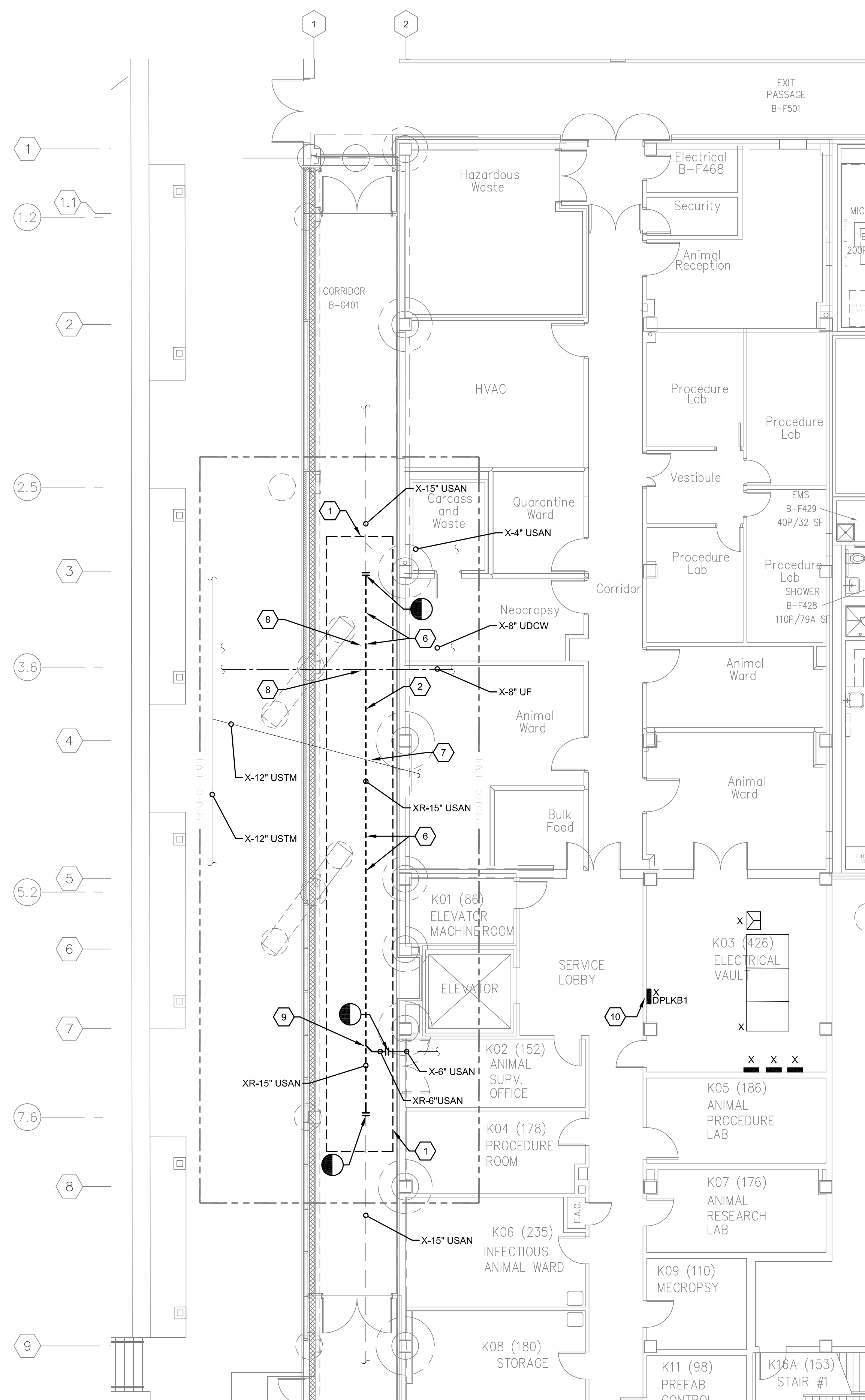


FULLY SPRINKLERED



KEY PLAN - BASEMENT

Scale = None



PARTIAL BASEMENT PLUMBING DEMOLITION PLAN

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

①

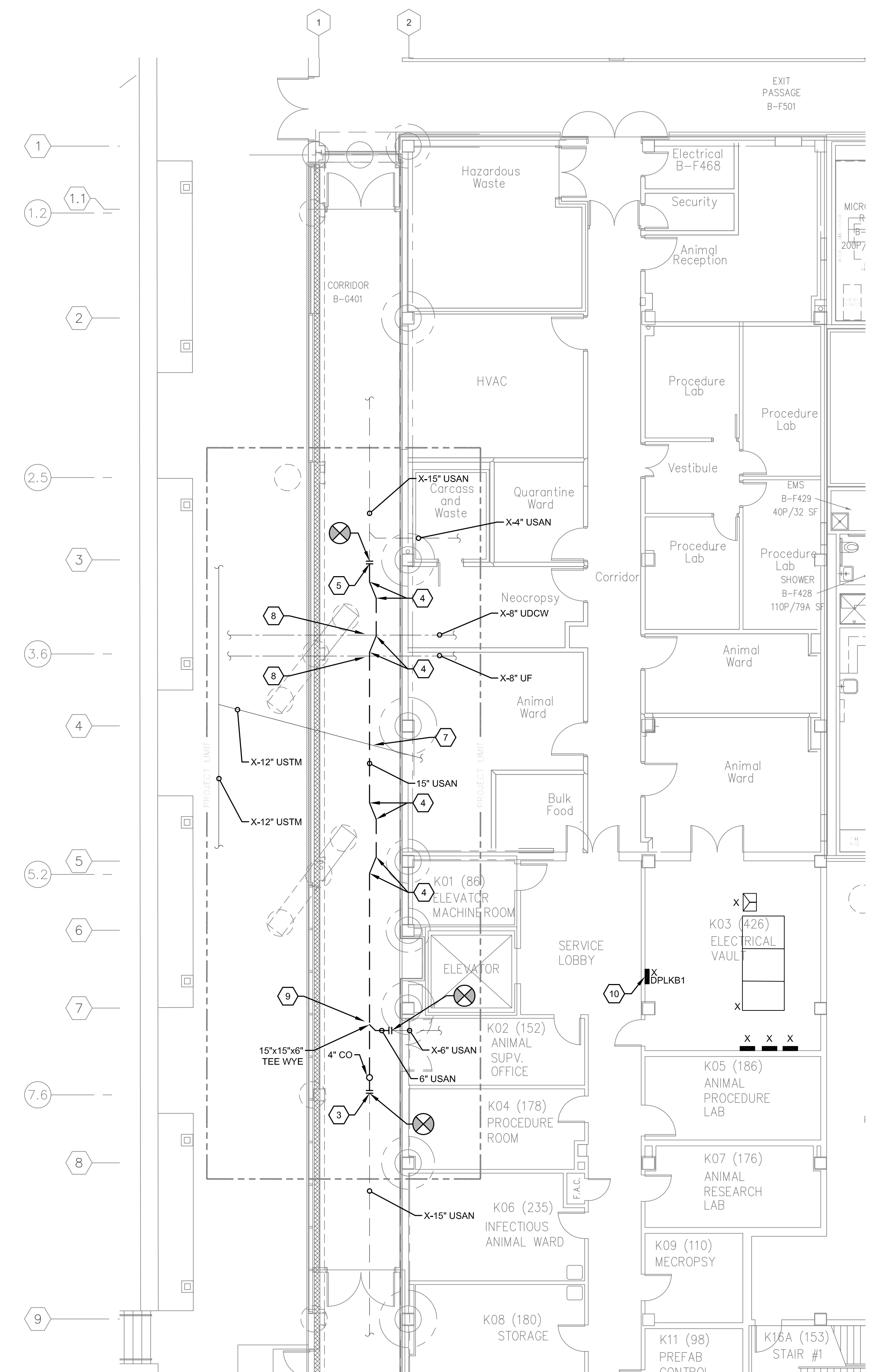
SUBMIT PROCEDURE:	
1.	CONTRACTOR SHALL SUBMIT DOCUMENTATION DESCRIBING SHORING PLAN TO ENSURE WORKERS SAFETY, COMPLY WITH OSHA REGULATIONS AND SUPPORT SUBSOIL.
2.	CONTRACTOR SHALL SUBMIT A BACKFILL PLAN INCLUDING BACKFILL MATERIALS, WORK SEQUENCE AND PROCEDURES TO ENSURE COMPACTED FILL.

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE SHORING REQUIRED TO ENSURE WORKERS SAFETY AND STRUCTURAL INTEGRITY OF THE EXCAVATION.
2. CONTRACTOR SHALL PROVIDE PUMPING EQUIPMENT TO MAINTAIN A DRY EXCAVATED AREA AND BACKFILL PER SPEC SECTION 31 20 00.
3. CONTRACTOR SHALL HAVE EXCAVATION INSPECTED PRIOR TO BACKFILL.
4. CONTRACTOR SHALL SCHEDULE BACKFILL TO ALLOW FOR A WITNESS INSPECTION THROUGHOUT THE BACKFILL PROCESS.

CODED NOTES:

1. CONTRACTOR SHALL SAW CUT FLOOR AND EXCAVATE TO AN APPROXIMATE DEPTH OF 12" TO REVEAL THE EXISTING 15" VITRIFIED CLAY SANITARY PIPING.
2. REMOVE SECTION OF EXISTING 15" VITRIFIED CLAY SANITARY PIPING COMPLETE TO LIMIT OF DEMOLITION SYMBOLS.
3. PROVIDE ELASTOMERIC SEAL COUPLING FOR TRANSITION FROM EXISTING 15" VITRIFIED CLAY PIPING TO NEW 15" SERVICE WEIGHT NO HUB PIPING.
4. PROVIDE 25 DEGREE ELBOWS 15" SERVICE WEIGHT HUB AND SPOIGT FITTINGS TO OFFSET AROUND CAISSON.
5. PROVIDE ELASTOMERIC SEAL COUPLING FOR TRANSITION FROM NEW 15" SERVICE WEIGHT HUB AND SPOIGT TO EXISTING 15" VITRIFIED CLAY SANITARY PIPING.
6. NOTIFY ENGINEER IF EXISTING VITRIFIED CLAY SANITARY PIPE IS EMBEDDED IN CONCRETE NEAR CAISSON. IF PIPING IS EMBEDDED IN THE CAISSON, THIS SECTION OF PIPE SHALL BE SAW CUT AND ABANDON IN PLACE, WITHOUT JEOPARDIZING THE STRUCTURE. CUT BEFORE AND AFTER THIS SECTION OF EMBEDDED PIPE PRIOR TO REMOVAL OF THE REMAINING PIPING.
7. EXISTING 12" UNDERGROUND STORM PIPE TO REMAIN. STORM PIPE IS APPROXIMATELY 3'-6" BELOW FLOOR. USE CAUTION TO AVOID DAMAGING LINE. IF LINE IS DAMAGED CONTRACTOR SHALL NOTIFY CORP AND FACILITIES AND WORK CONTINUOUSLY UNTIL LINE IS REPAIRED.
8. EXISTING 8" UNDERGROUND FIRE PROTECTION MAIN AND 8" DOMESTIC WATER MAIN PIPES TO REMAIN. EXISTING VALVES LOCATED OUTSIDE OF BUILDING WILL IDENTIFY GENERAL LOCATION OF PIPES. USE CAUTION TO AVOID DAMAGING LINES. IF LINES ARE DAMAGED CONTRACTOR SHALL NOTIFY CORP AND FACILITIES AND WORK CONTINUOUSLY UNTIL LINES ARE REPAIRED AND FLUSHED.
9. CONTRACTOR SHALL PROVIDE A PUMP PUMP AND HOSES REQUIRED TO CONTINUALLY REMOVE GROUND WATER AND SANITARY LIQUID FROM THE SEWER BREAK THROUGHOUT THE PROJECT. CONTRACTOR SHALL ALSO DISPOSE OF SOLIDS THAT ACCUMULATE IN THE OPEN SANITARY PIPE.
10. CONTRACTOR SHALL OBTAIN TEMPORARY POWER FROM PANEL DPLK181 LOCATED IN ROOM #M03. CONTRACTOR SHALL PROVIDE BREAKERS, WIRING, CABLES, AND CONNECTIONS REQUIRED TO COMPLETE THEIR WORK.



PARTIAL BASEMENT PLUMBING PLAN

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

②

Bid Issue	07/01/2016
Revisions:	Date

CONSULTANTS:

FREDRICK, FREDRICK & HELLER
ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX: (440) 546-9699

**ARCHITECT:**

Perspectus
architecture

13212 Shaker Square Suite 204 Cleveland, Ohio 44120
P. 216.752.1800 F. 216.752.3833

DESIGN AND CONSTRUCTION DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND REMAIN THE PROPERTY OF PERSPECTUS ARCHITECTURE. THE USE OF THE DESIGN AND THESE CONSTRUCTION DOCUMENTS FOR PURPOSES OTHER THAN THE SPECIFIC PROJECT NAMED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESSED WRITTEN CONSENT OF PERSPECTUS ARCHITECTURE.

Drawing Title	PARTIAL BASEMENT PLUMBING PLANS
---------------	--

Approved: Project Director

Project Title	EMERGENCY SEWER REPAIR K-WING
---------------	--

Location	VAMC - WADE PARK

Date

Checked

Drawn

Project Number	541-16-522
----------------	------------

Building Number	1
-----------------	---

	Drawing Number

1-P1.1

Dwg of

**Office of
Facilities
Management**

